



DO1021

Single Channel DO² Monitor/Controller

The DO1021 measures dissolved Oxygen levels in tanks, ponds and lakes and can turn on an installed aeration system when it's actually required thus saving energy. This cost effective system can ensure DO² levels are maintained and fish are kept at their best and in an unstressed state. The system can also be used to control DO² in both static and transportation tanks.

DO1021 System



Typical Operation

The DO1021 is supplied with 5 mtrs cable as standard but can be increased with connectors or single length at the factory.

The DO1021 & power switch can be attached to an aerator or on the side of the lake or control room*¹. The system is configured via the simple keypad/display. Once the lower DO² threshold is set, the power switch will turn on the aerator system long enough to bring DO² levels back to safe levels. A high level threshold can be used to circulate water during high DO². Readings can be logged to a P.C via the RS485 communication port.

Specifications

Indicators:	4 digit LED display
Power Supply:	110/230VAC or 12/24VDC (factory set)
Ambient Temperature:	-10 to +40°C
Power Switch Current Rating* ² :	24A@240V or 16A @24VDC Typ.
Oxygen control valve option	Degeared, 3mm Orifice, 12VDC 5W
Single DO ² Sensor type	Galvanic, maintenance free complete with 5 mtrs cable & filling kits with membrane
DO ² Range	0-40mg/l, Resolution 0.1 mg/l
DO ² Accuracy	3% of reading ± 0.2 mg/l
Temperature Probe, internal RTD	-10 to +40°C

*¹ - Can be wall/pole mounted in static applications – optional extra(factory fitted)

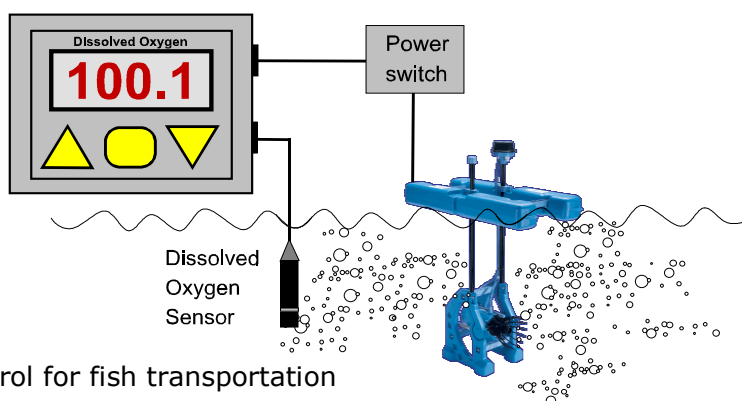
*² - Single phase control as standard – 3 phase as an optional extra.

Functionality/Benefits

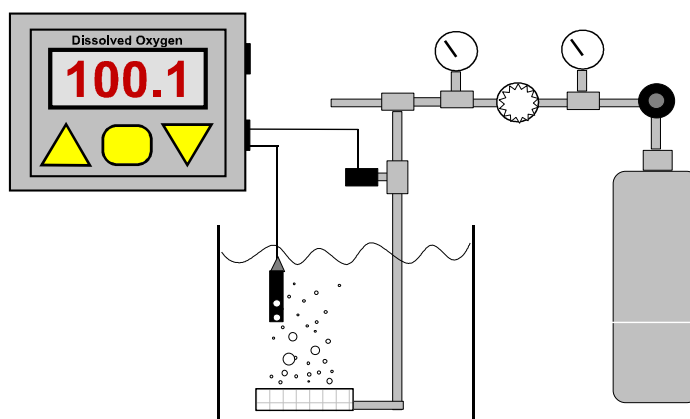
- Continuous monitoring of Oxygen levels in tanks or water courses
- Save energy, only aerate water when required
- Circulate water during periods of super saturation
- High brightness LED display
- Cost effective maintenance free Galvanic DO² probes
- Auto Temperature & manual Barometric/Salinity correction
- Simple threshold setting of minimum & maximum DO² levels

DO1021 Applications

- Aeration Control



- Control for fish transportation



- Spot sampling on ponds/rivers
- Up to 24 DO1021 can be integrated for a complete hatchery solution
- Oxygen monitoring in measurement & control applications

DO1021 System Options

- A - RS485 comms port. PC link upto 2 kms. Up to 24 DO1020 daisy chain.
- B - Wall/Pole mount kit
- C - Windscreen suction kit - for LED display
- D - Oxygen clean control valve (call for specification)
- E - Three phase contactor. 400/440 VAC 16A
- F - User probe installation (any Galvanic probe can be fitted on request)
- G - Additional probe cables



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